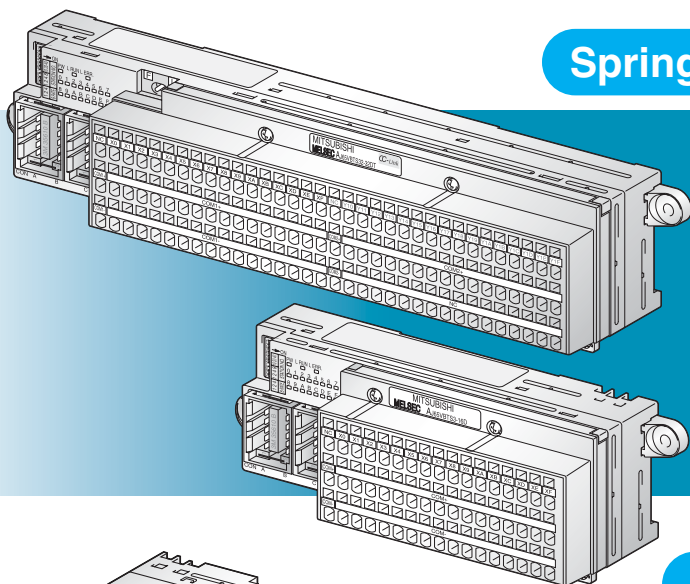


AJ65VBTS3-16D
 AJ65VBTS2-16T
 AJ65VBTS32-16DT
 AJ65VBTS3-32D
 AJ65VBTS2-32T
 AJ65VBTS32-32DT

AJ65VBTC3-8D
 AJ65VBTC2-8T
 AJ65VBTC3-16D
 AJ65VBTC2-16T
 AJ65VBTC32-16DT

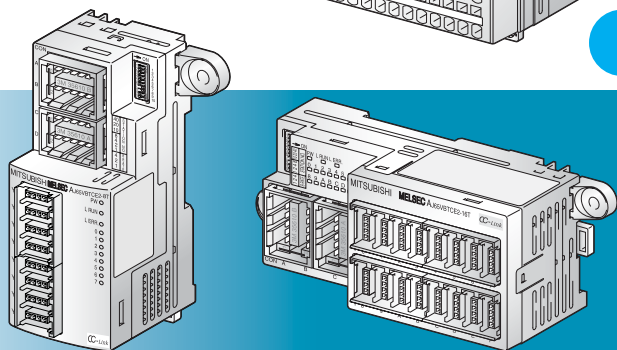
CC-Link Small Type Remote I/O Module

Introducing spring clamp terminal block type modules (16 or 32 pt), and sensor connector modules (e-CON, 8 or 16 pt)



Spring clamp terminal block type module

- Spring clamp terminal block
- Terminal block consisting of 2 parts
- Mount on DIN rail or screw fixture
- Both 2 and 3 wire sensor inputs



Sensor connector (e-CON)

- Sensor connector (e-CON)
- Mount on DIN rail or screw fixture
- Both 2 and 3 wire sensor inputs

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems)

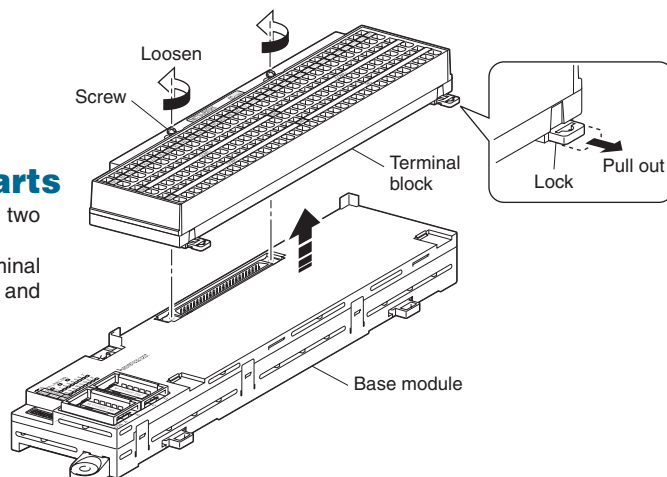
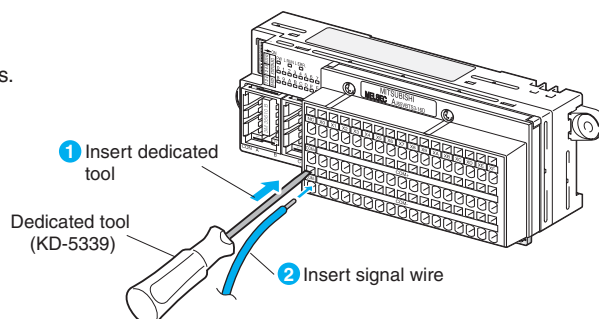
Spring clamp terminal block type module	AJ65VBTS3-16D / AJ65VBTS2-16T / AJ65VBTS32-16DT AJ65VBTS3-32D / AJ65VBTS2-32T / AJ65VBTS32-32DT
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Spring clamp terminal block type module	AJ65VBTS3-16D / AJ65VBTS2-16T / AJ65VBTS32-16DT AJ65VBTS3-32D / AJ65VBTS2-32T / AJ65VBTS32-32DT
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1.Spring clamp terminal block

By using the spring clamp terminal block, there is no need for tightening screws.

- 1) Easier wiring
→Wiring is simple, just insert the tool and then insert the wire.
- 2) Easily standardize procedure. (no torque control)
→No need for individual torque settings, as wire is gripped with spring clamp.
- 3) Maintenance free
→Retightening unnecessary following reinstallation.
- 4) Applicable wire sizes→0.08 to 1.5 mm² (AWG28 to 16)



2. Terminal block consisting of two parts

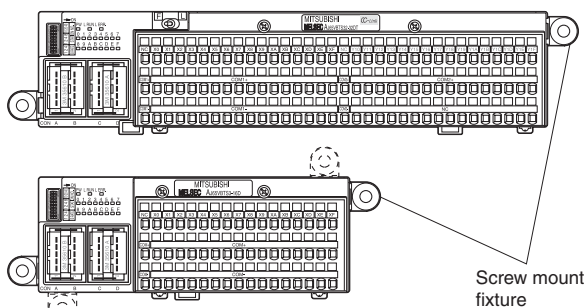
The spring clamp terminal block structure actually consists of two individual parts, improving maintainability.

When maintenance is required, re-wiring is not needed as the terminal block can be simply detached. This shortens man hours needed and also reduces errors being made during installation.

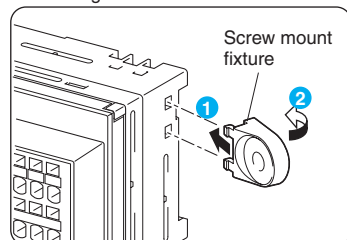
3. Mount on DIN rail or screw fixture

Mount the module on the DIN rails, or attach the module with the two screw mount fixtures which are situated on the left and right of the module. The 16 point module also provides screw fixture at the top and bottom.

*Screw mount fixtures included with product

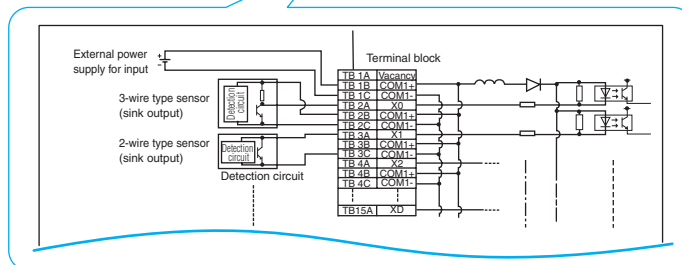
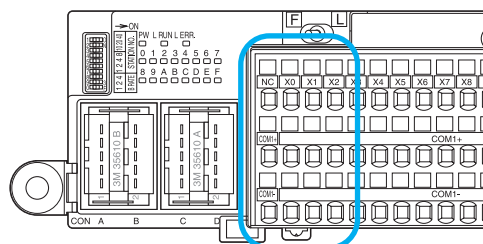


■ Mounting with the screw fixtures.



4. Both 2 and 3 wire sensor inputs

For each input point there is a single point common terminal block, enabling the connection of 2 or 3 wire sensor inputs.



5. Six module types available, input, output, composite modules with 16 or 32 points

Each module has one common allocated per 16 points. Therefore there are two common terminals for 32 point modules. This generous range of modules can be easily matched to your application.

Sensor connector module

AJ65VBTCE3-8D / AJ65VBTCE2-8T
AJ65VBTCE3-16D / AJ65VBTCE2-16T / AJ65VBTCE32-16DT

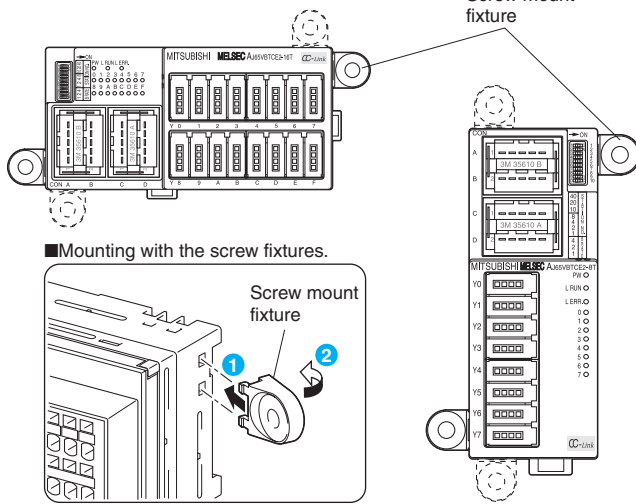
1. Sensor connector (e-CON)

- 1) Easy wiring
 - Each sensor is connected to its corresponding plug, therefore the sensor can be replaced separately reducing wiring needed.
 - Easy crimping using standard pliers. (Dedicated tool also available)
 - No need to prepare the wire eliminating waste.
- 2) Reliability
 - Contact failure eliminated by crimping.

2. Mount on DIN rail or screw fixture

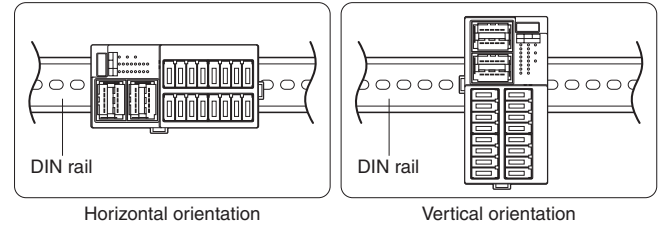
The module is mountable on a DIN rail. Also, it can be mounted using the screw fixtures provided, which are attached to the left and right of the module. The 16 point module also provides screw fixtures at the top and bottom.

*Screw mount fixtures included with product



3. Mount modules on DIN rail vertically or horizontally.

*Note that the 8 point input and output modules must be mounted vertically.



4. Both 2 and 3 wire sensor inputs

For each input point there is a single point common terminal block, enabling the connection of 2 or 3 wire sensor inputs.

5. Five module types available, input, output (8 or 16 pt) and composite module (16 pt)

Input and output modules use 16 points per common. Composite modules use 8 points per common.

This generous range of modules can be easily matched to your application.

6. Includes overload and overcurrent protection

The output module includes overload and overcurrent protection functions, therefore providing extensive protection functions reducing the risk of component damage.

Common characteristics

1. Easy front panel operation

All operations, switches and wiring are on the front panel.

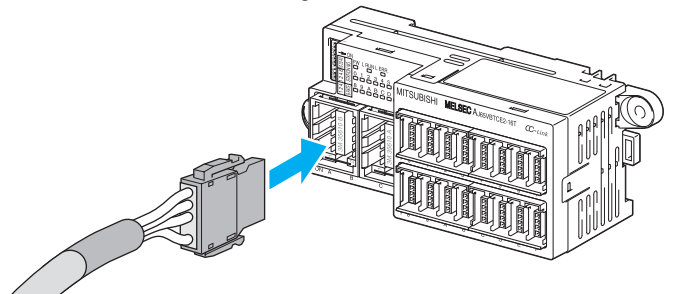
2. Choose between mounting orientation

No restrictions to the mounting orientation of the module, enabling greater flexibility in cabinet design.

3. One-touch connectors

Reduced wiring work through one-touch connectors used for communication and power lines.

Online Connectors for power/FG and communication allowing connectors to be changed online.



Options	One Touch / Online Connectors
One touch connector plugs for communication (10 pieces)	Model: A6CON-L5P
One touch connector plugs for power supply and FG (10 pieces)	Model: A6CON-PW5P
	Model: A6CON-PW5P-SOD
Online connector for communication (5 pieces)	Model: A6CON-LJ5P
Online connector plugs for power supply and FG (5 pieces)	Model: A6CON-PWJ5P
Terminal resistor attached one-touch connector plug (1 piece)	Model: A6CON-TR11

*1

*2

*1 Compatible with casing diameters of $\phi 2.2\text{mm}$ to $\phi 3.0\text{mm}$.

*2 Compatible with casing diameters of $\phi 2.0\text{mm}$ to $\phi 2.3\text{mm}$.

[Note] Contact your Mitsubishi representative.

Performance Specifications

Spring clamp terminal block type module AJ65VBTS3-16D

Specifications		Type	AJ65VBTS3-16D
Number of inputs			16 points
Isolation method			Photocoupler
Rated input voltage			24VDC
Rated input current			Approx. 5mA
Operating voltage range			19.2 to 26.4VDC (ripple ratio: within 5%)
Max. number of simultaneous inputs			100%/75%*1
ON voltage/ON current			14V or higher/3.5mA or higher
OFF voltage/OFF current			6V or lower/1.7mA or higher
Input resistance			Approx. 4.7kΩ
Response time	OFF→ON		1.5ms or lower (when 24VDC)
	ON→OFF		1.5ms or lower (when 24VDC)
Wiring method for common			16 points/common (Spring clamp terminal block type 3-wire type)
Input method			Positive common (sink type)
Number of stations occupied			1 station 32 points assignment (use 16 points)
I/O module power supply	Voltage		20.4 to 26.4VDC (ripple ratio: within 5%)
	Current		35mA or lower (when 24VDC and all points is ON.)
Noise durability			DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage			500VAC for 1 minute between all DC external terminals and ground
Insulation resistance			10MΩ or more, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree			IP1XB
Weight (kg)			0.24
External connection system	Communication section		One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-LJ5P), <option> Online connector for communication: A6CON-LJ5P
	Power supply section		One-touch connector for power supply and FG [I/O module power supply, FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section		2-piece, spring clamp terminal block [I/O power supply, I/O signal]
Applicable DIN rail			TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication		Applicable cable: FANC-110SBH, CS-110
	Connector for power supply and FG		0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	I/O spring clamp terminal block		0.08 to 1.5mm ² (AWG28 to 16) Wire strip length: 8 to 11mm
	Applicable crimped terminal		Contact your Mitsubishi representative.

Spring clamp terminal block type module AJ65VBTCE2-16T

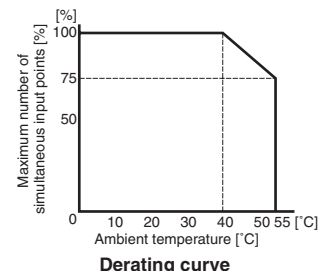
Specifications		Type	AJ65VBTS2-16T
Number of outputs			16 points
Isolation method			Photocoupler
Rated load voltage			12/24VDC
Operating load voltage range			10.2 to 26.4VDC (ripple ratio: within 5%)
Max. load current			0.5A/point 4A/common
Max. inrush current			1.0A 10ms or lower
Leakage current at OFF			0.1mA or lower
Max. voltage drop at ON			0.3V or lower (TYP) 0.5A, 0.6V or lower (MAX) 0.5A
Output method			Positive common (Sink type)
Protection function			None
Response time	OFF→ON		1ms or lower
	ON→OFF		1ms or lower (resistive load)
External Power supply for output	Voltage		10.2 to 26.4VDC (ripple ratio: within 5%)
	Current		30mA or lower (when 24VDC and all point is ON.) Not including external load current
Surge suppressor			Zener diode
Wiring method for common			16 points/common (Spring clamp terminal block type 2-wire type)
Number of stations occupied			1 station 32 points assignment (use 16 points)
I/O module power supply	Voltage		20.4 to 26.4VDC (ripple ratio: within 5%)
	Current		45mA or lower (when 24VDC and all point is ON.)
Noise durability			DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage			500VAC for 1 minute between all DC external terminals and ground
Insulation resistance			10MΩ or higher, measured with a 500VDC insulation resistance tester
Protection degree			IP1XB
Weight (kg)			0.24
External connection system	Communication section		One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section		One-touch connector for power supply and FG [I/O module power supply, FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section		2-piece, spring clamp terminal block [I/O power supply, I/O signal]
Applicable DIN rail			TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication		Applicable cable: FANC-110SBH, CS-110
	Connector for power supply and FG		0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	I/O spring clamp terminal block		0.08 to 1.5mm ² (AWG28 to 16) Wire strip length: 8 to 11mm
	Applicable crimped terminal		Contact your Mitsubishi representative.

Spring clamp terminal block type module

AJ65VBTCE32-16DT

Specifications		Type	AJ65VBT32-16DT	
			Input specifications	Output specifications
Number of inputs			8 points	Number of outputs
Isolation method			Photocoupler	8 points
Rated input voltage			24VDC	Isolation method
Rated input current			Approx. 5mA	Photocoupler
Operating voltage range			19.2 to 26.4VDC (ripple ratio: within 5%)	Rated load voltage
Max. number of simultaneous inputs			100%	24VDC
ON voltage/ON current			14V or higher/3.5mA or higher	Operating load voltage range
OFF voltage/OFF current			6V or lower/1.7mA or lower	19.2 to 26.4VDC (ripple ratio: within 5%)
Input resistance			Approx. 4.7k Ω	Max. load current
Response time			OFF→ON 1.5ms or lower (when 24VDC)	0.5A/point 4A/common
			ON→OFF 1.5ms or lower (when 24VDC)	Max. inrush current
				1.0A 10ms or lower
				Leakage current at OFF
				0.1mA or lower
				Max. voltage drop at ON
				0.3V or lower (TYP) 0.5A, 0.6V or lower (MAX) 0.5A
				Output method
				Positive common (Sink type)
				Protection function
				None
				Response time
				OFF→ON 1ms or lower
				ON→OFF 1ms or lower (resistive load)
				External Power supply for output
				Voltage 19.2 to 26.4VDC (ripple ratio: within 5%) for output
				Current 15mA or lower (when 24VDC and all point is ON.)
				Not including external load current
				Surge suppressor
				Zener diode
Input method			Positive common (Sink type)	
Wiring method for common			16 points/common (Spring clamp terminal block type 3-wire type: Input, Spring clamp terminal block type 2-wire type: Output)	
Number of stations occupied			1 station 32 points assignment (use 16 points)	
I/O module power supply			Voltage 20.4 to 26.4VDC (ripple ratio: within 5%)	
			Current 40mA or lower (When 24VDC and all point is ON.)	
Noise durability			DC type noise voltage 500Vp-p, noise width 1 μ s, noise carrier frequency 25 to 60Hz (noise simulator condition)	
Dielectric withstand voltage			500VAC for 1 minute between all DC external terminals and ground	
Insulation resistance			10M Ω or higher, measured with a 500VDC insulation resistance tester	
Protection degree			IP1XB	
Weight (kg)			0.24	
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P		
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P		
	I/O section	2-piece, spring clamp terminal block [I/O power supply, I/O signal]		
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)		
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110		
	Connector for power supply and FG	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more		
	I/O spring clamp terminal block	0.08 to 1.5mm ² (AWG28 to 16) Wire strip length: 8 to 11mm		
Applicable crimped terminal		Contact your Mitsubishi representative.		

*1 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



Spring clamp terminal block type module

AJ65VBTS3-32D

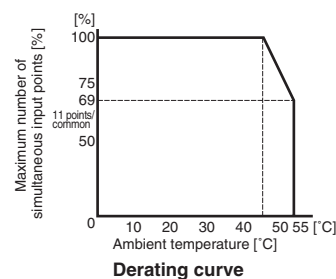
Specifications	Type	AJ65VBTS3-32D
Number of inputs		32 points
Isolation method		Photocoupler
Rated input voltage		24VDC
Rated input current		Approx. 5mA
Operating voltage range		19.2 to 26.4VDC (ripple ratio: within 5%)
Max. number of simultaneous inputs		100%/69%*1
ON voltage/ON current		14V or higher/3.5mA or higher
OFF voltage/OFF current		6V or lower/1.7mA or lower
Input resistance		Approx. 4.7kΩ
Response time	OFF→ON	1.5ms or lower (when 24VDC)
	ON→OFF	1.5ms or lower (when 24VDC)
Wiring method for common		16 points/common (Spring clamp terminal block type 3-wire type)
Input method		Positive common (Sink type)
Number of stations occupied		1 station 32 points assignment (use 32 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)
	Current	40mA or lower (when 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.41
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section	2-piece, spring clamp terminal block [I/O power supply, I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply and FG	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	I/O spring clamp terminal block	0.08 to 1.5mm ² (AWG28 to 16) Wire strip length: 8 to 11mm
	Applicable crimped terminal	Contact your Mitsubishi representative.

Spring clamp terminal block type module

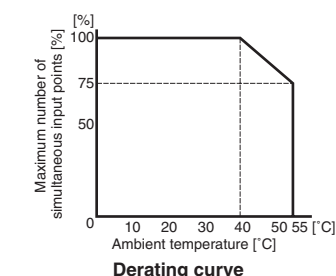
AJ65VBTS2-32T

Specifications	Type	AJ65VBTS2-32T
Number of outputs		32 points
Isolation method		Photocoupler
Rated load voltage		12/24VDC
Operating load voltage range		10.2 to 26.4VDC (ripple ratio: within 5%)
Max. load current		0.5A/point 4A/common
Max. inrush current		1.0A 10ms or lower
Leakage current at OFF		0.1mA or lower
Max. voltage drop at ON		0.3V or lower (TYP) 0.5A, 0.6V or lower (MAX) 0.5A
Output method		Positive common (Sink type)
Protection function		None
Response time	OFF→ON	1ms or lower
	ON→OFF	1ms or lower (resistive load)
External Power supply for output	Voltage	10.2 to 26.4VDC (ripple ratio: within 5%)
	Current	30mA or lower (when 24VDC and all point is ON.) Not including external load current
Surge suppressor		Zener diode
Wiring method for common		16 points/common (Spring clamp terminal block type 2-wire type)
Number of stations occupied		1 station 32 points assignment (use 32 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)
	Current	60mA or lower (when 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.40
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section	2-piece, spring clamp terminal block [I/O power supply, I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply and FG	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	I/O spring clamp terminal block	0.08 to 1.5mm ² (AWG28 to 16) Wire strip length: 8 to 11mm
	Applicable crimped terminal	Contact your Mitsubishi representative.

*1 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



*2 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



AJ65VBTS32-32DT

*2 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



Sensor connector input module

AJ65VBTCE3-8D

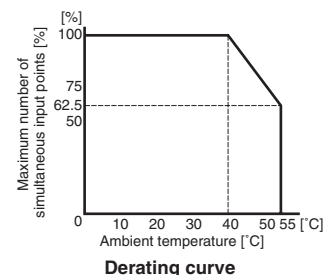
Specifications	Type	AJ65VBTCE3-8D
Number of inputs		8 points
Isolation method		Photocoupler
Rated input voltage		24VDC
Rated input current		Approx. 5mA
Operating voltage range		19.2 to 26.4VDC (ripple ratio: within 5%)
Max. number of simultaneous inputs		100%/62.5%*1
ON voltage/ON current		14V or higher/3.5mA or higher
OFF voltage/OFF current		6V or lower/1.7mA or lower
Input resistance		Approx. 4.7kΩ
Response time	OFF→ON	1.5ms or lower (when 24VDC)
	ON→OFF	1.5ms or lower (when 24VDC)
Wiring method for common		8 points/common (One-touch connector (e-CON) 3-wire type)
Input method		Positive common (Sink type)
Number of stations occupied		1 station 32 points assignment (use 8 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)
	Current	35mA or lower (when 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.10
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P, A6CON-PW5P-SOD), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, External power supply for input and FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section	One-touch connector (e-CON) 4 pins pressure welding type, the plug for the connector is sold separately [I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0(A6CON-PW5P), ø2.0 to 2.3(A6CON-PW5P-SOD)], wire diameter 0.16mm or more
	I/O connector	Contact your Mitsubishi representative.

Sensor connector output module

AJ65VBTCE2-8T

Specifications	Type	AJ65VBTCE2-8T
Number of outputs		8 points
Isolation method		Photocoupler
Rated load voltage		12/24VDC
Operating load voltage range		10.2 to 26.4VDC (ripple ratio: within 5%)
Max. load current		0.1A/point 0.8A/common
Max. inrush current		0.7A 10ms or lower
Leakage current at OFF		0.1mA or lower
Max. voltage drop at ON		0.1V or lower (TYP) 0.1A, 0.2V or lower (MAX) 0.1A
Output method		Positive common (Sink type)
Protection function		Overload protection function, overvoltage protection function and overheat protection function
Response time	OFF→ON	1ms or lower
	ON→OFF	1ms or lower (resistive load)
External Power supply for output	Voltage	10.2 to 26.4VDC (ripple ratio: 5%)
	Current	5mA or lower (when 24VDC and all point is ON.) Not including external load current
Surge suppressor		Zener diode
Wiring method for common		8 points/common (One-touch connector (e-CON) 2-wire type)
Number of stations occupied		1 station 32 points assignment (use 8 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: 5%)
	Current	35mA or lower (when 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.10
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, External power supply for input and FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P, A6CON-PW5P-SOD), <option> Online connector for power supply: A6CON-PWJ5P
	I/O section	One-touch connector (e-CON) (4 pins pressure welding type, the plug for the connector is sold separately) [I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0(A6CON-PW5P), ø2.0 to 2.3(A6CON-PW5P-SOD)], wire diameter 0.16mm or more
	I/O connector	Contact your Mitsubishi representative.

*1 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



Sensor connector I/O composite module

AJ65VBTCE3-16D

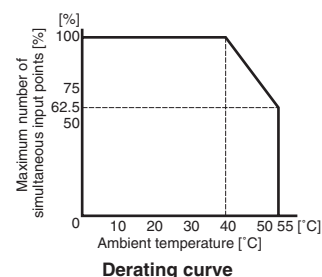
Specifications	Type	AJ65VBTCE3-16D
Number of inputs		16 points
Isolation method		Photocoupler
Rated input voltage		24VDC
Rated input current		Approx. 5mA
Operating voltage range		19.2 to 26.4VDC (ripple ratio: within 5%)
Max. number of simultaneous inputs		100%/62.5%*1
ON voltage/ON current		14V or higher/3.5mA or higher
OFF voltage/OFF current		6V or lower/1.7mA or lower
Input resistance		Approx. 4.7kΩ
Response time	OFF→ON	1.5ms or lower (when 24VDC)
	ON→OFF	1.5ms or lower (when 24VDC)
Wiring method for common		16 points/common (Sensor connector (e-CON) 3-wire type)
Input method		Positive common (Sink type)
Number of stations occupied		1 station 32 points assignment (use 16 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)
	Current	35mA or lower (When 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10 MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.10
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, External power supply for input and FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section	Sensor connector (e-CON) (4 pins pressure welding type, the plug for the connector is sold separately) [I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	Connector for I/O connector	Contact your Mitsubishi representative.

Sensor connector I/O composite module

AJ65VBTCE2-16T

Specifications	Type	AJ65VBTCE2-16T
Number of outputs		16 points
Isolation method		Photocoupler
Rated load voltage		12/24VDC
Operating load voltage range		10.2 to 26.4VDC (ripple ratio: within 5%)
Max. load current		0.1A/point 1.6A/common
Max. inrush current		0.7A 10ms or lower
Leakage current at OFF		0.1mA or lower
Max. voltage drop at ON		0.1V or lower (TYP) 0.1A, 0.2V or lower (MAX) 0.1A
Output method		Positive common (Sink type)
Protection function		Overload protection function, overvoltage protection function and overheat protection function
Response time	OFF→ON	1ms or lower
	ON→OFF	1ms or lower (resistive load)
External Power supply for output	Voltage	10.2 to 26.4VDC (ripple ratio: within 5%)
	Current	10mA or lower (when 24VDC and all point is ON.) Not including external load current
Surge suppressor		Zener diode
Wiring method for common		16 points/common (Sensor connector (e-CON) type 2-wire type)
Number of stations occupied		1 station 32 points assignment (use 16 points)
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)
	Current	45mA or lower (when 24VDC and all point is ON.)
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground
Protection degree		IP1XB
Weight (kg)		0.10
External connection system	Communication section	One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P
	Power supply section	One-touch connector for power supply and FG [I/O module power supply, External power supply for input and FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), < option > Online connector for power supply: A6CON-PWJ5P
	I/O section	Sensor connector (e-CON) (4 pins pressure welding type, the plug for the connector is sold separately) [I/O signal]
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)
Applicable wire size	Connector for communication	Applicable cable: FANC-110SBH, CS-110
	Connector for power supply	0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more
	Connector for I/O Sensor connector	Contact your Mitsubishi representative.

*1 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).

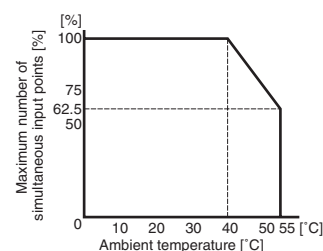


Sensor connector I/O composite module

AJ65VBTCE32-16DT

Specifications		Type	AJ65VBTCE32-16DT				
Input specifications			Output specifications				
Number of inputs			8 points		Number of outputs		
Isolation method			Photocoupler		Photocoupler		
Rated input voltage			24VDC		Rated load voltage		
Rated input current			Approx. 5mA		Operating load voltage range		
Operating voltage range		19.2 to 26.4VDC (ripple ratio: within 5%)	Max. load current		0.1A/point 0.8A/common		
Max. number of simultaneous inputs		100%	Max. inrush current		0.7A 10ms or lower		
ON voltage/ON current		14V or higher/3.5mA or higher	Leakage current at OFF		0.1mA or lower		
OFF voltage/OFF current		6V or lower/1.7mA or lower	Max. voltage drop at ON		0.1V or lower (TYP) 0.1A, 0.2V or lower (MAX) 0.1A		
Input resistance		Approx. 4.7kΩ	Output method		Positive common (Sink type)		
			Protection function		Overload protection function, overvoltage protection function and overheat protection function		
Response time	OFF→ON	1.5ms or lower (when 24VDC)	Response time	OFF→ON	1ms or lower		
	ON→OFF	1.5ms or lower (when 24VDC)		ON→OFF	1ms or lower (resistive load)		
			External Power supply for output	Voltage	19.2 to 26.4VDC (ripple ratio: 5%)		
				Current	5mA or lower (when 24VDC and all point is ON.) Not including external load current		
Input method		Positive common (Sink type)	Surge suppressor		Zener diode		
Wiring method for common		16 points/common (Sensor connector (e-CON) 3-wire type: Input, Sensor connector (e-CON) 2-wire type: Output)					
Number of stations occupied		1 station 32 points assignment (use 16 points)					
I/O module power supply	Voltage	20.4 to 26.4VDC (ripple ratio: within 5%)					
	Current	40mA or lower (when 24VDC and all point is ON.)					
Noise durability		DC type noise voltage 500Vp-p, noise width 1μs, noise carrier frequency 25 to 60Hz (noise simulator condition)					
Dielectric withstand voltage		500VAC for 1 minute between all DC external terminals and ground					
Insulation resistance		10MΩ or higher, measured with a 500VDC insulation resistance tester between all DC external terminals and ground					
Protection degree		IP1XB					
Weight (kg)		0.11					
External connection system	Communication section		One-touch connector for communication [Transmission circuit] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-L5P), < option > Online connector for communication: A6CON-LJ5P				
	Power supply section		One-touch connector for power supply and FG [I/O module power supply, External power supply for input and FG] (5 pins pressure welding type, the plug for the connector is sold separately: A6CON-PW5P), <option> Online connector for power supply: A6CON-PWJ5P				
	I/O section		Sensor connector (e-CON) (4 pins pressure welding type, the plug for the connector is sold separately) [I/O signal]				
Applicable DIN rail		TH35-7.5Fe, TH35-7.5Al (conforming to JIS C 2812)					
Applicable wire size	Connector for communication		Applicable cable: FANC-110SBH, CS-110				
	Connector for power supply		0.66 to 0.98mm ² (AWG18) [ø2.2 to 3.0], wire diameter 0.16mm or more				
Applicable wire size		Connector for I/O Sensor connector		Contact your Mitsubishi representative.			

*1 Refer to the following derating chart for the maximum number of inputs, for orientations other than front installation (basic orientation).



Derating curve

General Specifications

Item	Specifications					
Operating ambient temperature	0 to 55°C					
Storage ambient temperature	-25 to 75°C					
Operating ambient humidity	10 to 90%RH, non-condensing					
Storage ambient humidity	10 to 90%RH, non-condensing					
Vibration resistance	Conforming to JIS B 3502, IEC 61131-2		Frequency	Acceleration	Amplitude	Sweep count
		Under intermittent vibration	10 to 57Hz	—	0.075mm	10 times each in X, Y, Z directions (for 80 min.)
			57 to 150Hz	9.8m/s ²	—	
		Under continuous vibration	10 to 57Hz	—	0.035mm	
			57 to 150Hz	4.9m/s ²	—	
Shock resistance	Conforming to JIS B 3502, IEC 61131-2 (147m/s ² , 3 times in each of 3 directions X, Y, Z)					
Operating atmosphere	No corrosive gases					
Operating altitude	2000m max.*3					
Installation location	Inside control panel					
Overvoltage category*1	Ⅱ max.					
Pollution degree*2	2 max.					

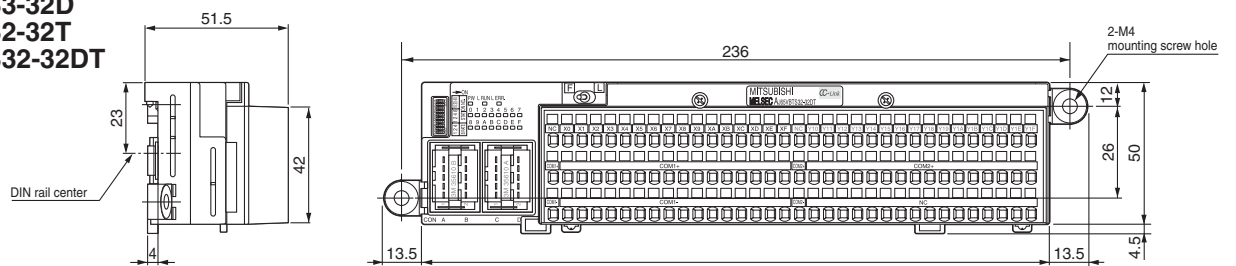
*1. Classification based on limiting (or controlling) the values of prospective transient overvoltages in a circuit (or within an electrical system having different nominal voltages). Category II applies to a device supplied power from a fixed facility. The surge resistance voltage is 2500V for a device having a rating up to 300V.

*2. For purpose of evaluating clearances and creepage distances, three degrees of pollution in the micro-environment are established. At pollution degree 2, normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

*3. Do not operate the programmable logic controller at altitude 0m or more in a pressurized environment. It may malfunction if it is operated. Contact us when operating in a pressurized state.

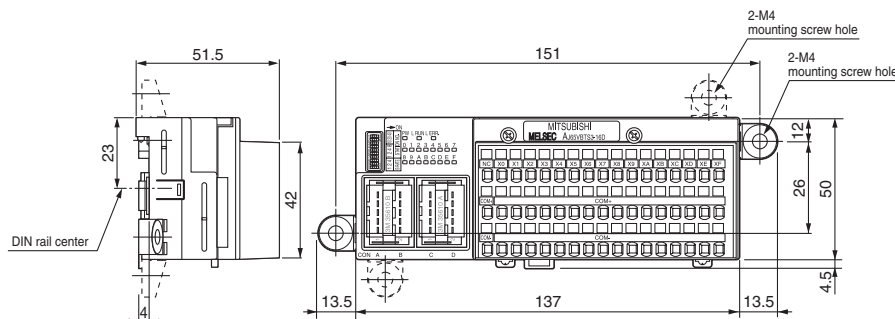
External Dimensions

AJ65VBTS3-32D
AJ65VBTS2-32T
AJ65VBTS32-32DT

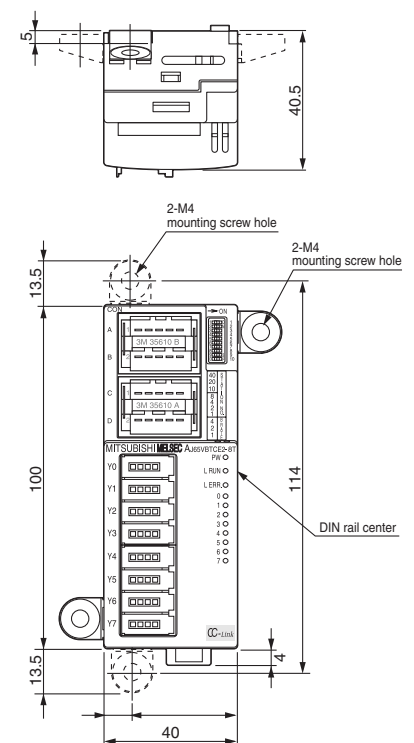


Unit: mm

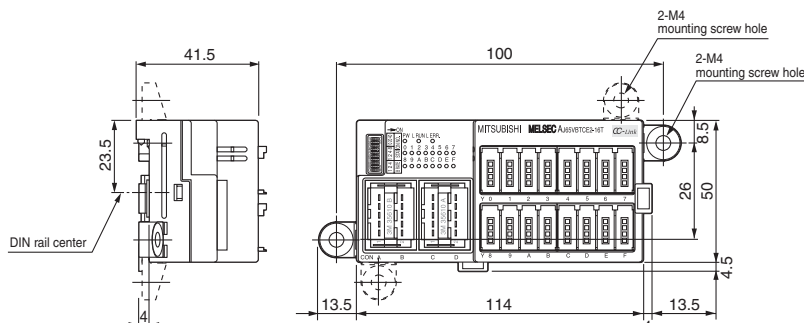
AJ65VBTS3-16D
AJ65VBTS2-16T
AJ65VBTS32-16DT



AJ65VBTC3-8D
AJ65VBTC2-8T



AJ65VBTC3-16D
AJ65VBTC2-16T
AJ65VBTC32-16DT



Product List

Product name		Model	Model code
AJ65VBTS3-16D	CC-Link Spring Clamp Terminal Block 3 Wire Sink Type DC24V, 16 (5mA Input) Points	AJ65VBTS3-16D	1W5422
AJ65VBTS2-16T	CC-Link Spring Clamp Terminal Block 2 Wire Sink Type 16 (Transistor Output 0.5A) Points	AJ65VBTS2-16T	1W5424
AJ65VBTS32-16DT	CC-Link Spring Clamp Terminal Block 3 Wire Sink Type DC24V, 8 (5mA Input) Points Spring Clamp Terminal Block 2 Wire Sink Type Transistor Outputs	AJ65VBTS32-16DT	1W5426
AJ65VBTS3-32D	CC-Link Spring Clamp Terminal Block 3 Wire Sink Type DC24V, 32 (5mA Input) Points	AJ65VBTS3-32D	1W5423
AJ65VBTS2-32T	CC-Link Spring Clamp Terminal Block 2 Wire Sink Type 32 (Transistor Output 0.5A) Points	AJ65VBTS2-32T	1W5425
AJ65VBTS32-32DT	CC-Link Spring Clamp Terminal Block 3 Wire Sink TypeDC24V, 16 (5mA Input) Points Spring Clamp Terminal Block 2 Wire Sink Type Transistor Outputs	AJ65VBTS32-32DT	1W5427
AJ65VBTC3-8D	CC-Link Sensor Connector (e-CON) Type 3 Wire Sink Type DC24V, 8 (5mA Input) Points	AJ65VBTC3-8D	1W5434
AJ65VBTC2-8T	Sensor Connector (e-CON) Type 2 Wire Sink Type, 8 (Transistor Output 0.1A) Points	AJ65VBTC2-8T	1W5435
AJ65VBTC3-16D	CC-Link Sensor Connector (e-CON) 3 Wire Sink Type DC24V, 16 (5mA Input) Points	AJ65VBTC3-16D	1W5428
AJ65VBTC2-16T	CC-Link Sensor Connector (e-CON) 2 Wire Sink Type 16 (Transistor Output 0.1A) Points	AJ65VBTC2-16T	1W5430
AJ65VBTC32-16DT	CC-Link Sensor Connector (e-CON) Type 3 Wire Sink Type DC24V, 8 (5mA Input) Points Sensor Connector (e-CON) Type 2 Wire Sink Type, 8 (Transistor Output 0.1A) Points	AJ65VBTC32-16DT	1W5432

Manuals

Manual name	Manual supply status	IB/SH number	Model code
AJ65VBTS3-16D-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800268
AJ65VBTS2-16T-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800270
AJ65VBTS32-16DT-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800272
AJ65VBTS3-32D-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800269
AJ65VBTS2-32T-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800271
AJ65VBTS32-32DT-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800273
AJ65VBTC3-8D-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800286-A
AJ65VBTC2-8T-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800287-A
AJ65VBTC3-16D-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800274
AJ65VBTC2-16T-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800276
AJ65VBTC32-16DT-U	CC-Link System Small Type Remote I/O Module Users Manual	Included with product	IB-0800278
CC-Link System Compact Type Remote I/O Module User's Manual	Sold separately	SH-4007-P	13JL72

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